

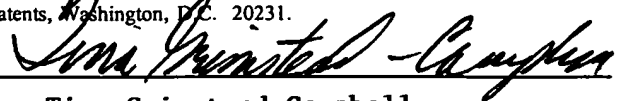
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## APPENDIX H

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Tina Grimstead-Campbell

# APPENDIX H

## Checks Done On Java Byte Codes By Type

Decoding the instruction. This gives us the length to generate the next PC, and the instruction type:

```
pcarg1 = _GET_ILENGTH(_decodeinfo(insn));
itype = _GET_ITYPE(_decodeinfo(insn));
```

Implement some pre-execution checks based on this:

```
/* Check the input stack state based on the instruction type */
if (itype <= ITYPE9) {
    if (itype <= ITYPE1) {
        check_stack_int(1);
    }
    check_stack_int(0);
}
else if (itype <= ITYPE12) {
    check_stack_ref(0);
}
else if (itype < ITYPE11) {
    push(1);
}
```

Finally, implement some post execution checks:

```
/* Set the output state */
if (itype <= ITYPE8) {
    if (itype <= ITYPE6) {
        if (itype >= ITYPE6) {
            pop(1);
        }
        pop(1);
    }
    pop(1);
}
else if (itype <= ITYPE10) {
    set_stack_int(0);
}
else if (itype >= ITYPE11 && itype <= ITYPE16) {
    set_stack_ref(0);
}
```

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